



Analytical Techniques and Extended Report Options

Details of the information provided by our analytical techniques and the respective standard reports offered can be found on our website via the links to *analytical services*.

Our analytical techniques utilize state-of-the-art equipment combined with the latest controlling software, giving the capability of enormously powerful data reduction and reporting options. These are particularly pertinent to areas of porosimetry and examples of the extended options available are given below.

Analytical Technique	Our Code	Extended Report Options
Multi-point BET surface area	SC6T	<ul style="list-style-type: none"> Langmuir surface area calculation. Single point surface area calculation.
Porosimetry by gas adsorption	SC3	<ul style="list-style-type: none"> Generation of Freundlich isotherm data. Generation of Tempkin isotherm data. Micropore surface area by t-plot analysis. Micropore area by Dubinin analysis. Pore surface area and volume by MP-method. DFT pore modeling including nano-particle size. Comparison to standard isotherm via f-ratio method. Normalisation via α-S plots.
Mercury Intrusion Porosimetry (MIP) with density and porosity calculation	SC11 BD	<ul style="list-style-type: none"> Meyer-Stowe analysis. Material Compressibility. Breakthrough pressure. Fractal dimension analysis. Threshold and breakthrough pressure.
Mercury Intrusion / Extrusion Porosimetry	SC11 A	<ul style="list-style-type: none"> Cavity to throat size ratio. Permeability of pore structure. Tortuosity of pore structure.

Graphical overlay plots can be generated according to your specification of parameters. These are supplied in a file format suitable for direct application to written reports, presentations and publications.

Raw data can often be supplied in a Microsoft Excel file for further manipulation or application to supplementary data.

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